

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No. 5470-338

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled REGULATION OF QUINOLATE PHOSPHORIBOSYL TRANSFERASE EXPRESSION,

the specification of which

☐ is attached hereto

OR

☒ was filed on 10 February 1998 as United States Application No. 09/021,286.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

NONE			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

60/049,471	June 12, 1997
Application Number(s)	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States

of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application (37 C.F.R. § 1.63(d)).

None		
Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Customer Number 20792

Send correspondence to: Virginia C. Bennett
Myers Bigel Sibley & Sajovec
Post Office Box 37428
Raleigh, NC 27627

Direct telephone calls to: Virginia C. Bennett
(919)854-1400

Facsimile: (919) 854-1401

Full name of first inventor: Mark A. Conkling

Inventor's

Signature: Mark A. Conkling Date: 5/12/98

Residence:

5313 April Wind Drive
Fuquay Varina, North Carolina 27526

Citizenship:

United States of America

Full name of second inventor: Wen Song

Inventor's
Signature: Wen Song Date: 5/12/98

Residence: 9616 Gold Coast Drive, No. G-8
San Diego, California 92126

Citizenship: Peoples Republic of China

Patented 07/25/98

Residence: 5639 Chapel Hill Road, No. 207
Durham, North Carolina 27707

Page 5 of 5

(A) NAME/KEY: CDS
(B) LOCATION: 52..1104

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CAAAA	ACTAT	TTTCC	ACAAA	ATTCAT	TTTCA	CAACCC	CCCCC	AAAAAA	AAAC	C	ATG	TTT			57	
											Met	Phe				
											1					
AGA	GCT	ATT	CCT	TTC	ACT	GCT	ACA	GTG	CAT	CCT	TAT	GCA	ATT	ACA	GCT	105
Arg	Ala	Ile	Pro	Phe	Thr	Ala	Thr	Val	His	Pro	Tyr	Ala	Ile	Thr	Ala	
		5					10					15				
CCA	AGG	TTG	GTG	GTG	AAA	ATG	TCA	GCA	ATA	GCC	ACC	AAG	AAT	ACA	AGA	153
Pro	Arg	Leu	Val	Val	Lys	Met	Ser	Ala	Ile	Ala	Thr	Lys	Asn	Thr	Arg	
		20				25				30						
GTG	GAG	TCA	TTA	GAG	GTG	AAA	CCA	CCA	GCA	CAC	CCA	ACT	TAT	GAT	TTA	201
Val	Glu	Ser	Leu	Glu	Val	Lys	Pro	Pro	Ala	His	Pro	Thr	Tyr	Asp	Leu	
	35				40				45					50		
AAG	GAA	GTT	ATG	AAA	CTT	GCA	CTC	TCT	GAA	GAT	GCT	GGG	AAT	TTA	GGA	249
Lys	Glu	Val	Met	Lys	Leu	Ala	Leu	Ser	Glu	Asp	Ala	Gly	Asn	Leu	Gly	
				55				60						65		
GAT	GTG	ACT	TGT	AAG	GCG	ACA	ATT	CCT	CTT	GAT	ATG	GAA	TCC	GAT	GCT	297
Asp	Val	Thr	Cys	Lys	Ala	Thr	Ile	Pro	Leu	Asp	Met	Glu	Ser	Asp	Ala	
			70					75					80			
CAT	TTT	CTA	GCA	AAG	GAA	GAC	GGG	ATC	ATA	GCA	GGA	ATT	GCA	CTT	GCT	345
His	Phe	Leu	Ala	Lys	Glu	Asp	Gly	Ile	Ile	Ala	Gly	Ile	Ala	Leu	Ala	
		85					90					95				
GAG	ATG	ATA	TTC	GCG	GAA	GTT	GAT	CCT	TCA	TTA	AAG	GTG	GAG	TGG	TAT	393
Glu	Met	Ile	Phe	Ala	Glu	Val	Asp	Pro	Ser	Leu	Lys	Val	Glu	Trp	Tyr	
	100					105					110					
GTA	AAT	GAT	GGC	GAT	AAA	GTT	CAT	AAA	GGC	TTG	AAA	TTT	GGC	AAA	GTA	441
Val	Asn	Asp	Gly	Asp	Lys	Val	His	Lys	Gly	Leu	Lys	Phe	Gly	Lys	Val	
	115				120				125					130		
CAA	GGA	AAC	GCT	TAC	AAC	ATT	GTT	ATA	GCT	GAG	AGG	GTT	GTT	CTC	AAT	489
Gln	Gly	Asn	Ala	Tyr	Asn	Ile	Val	Ile	Ala	Glu	Arg	Val	Val	Leu	Asn	
				135					140					145		
TTT	ATG	CAA	AGA	ATG	AGT	GGA	ATA	GCT	ACA	CTA	ACT	AAG	GAA	ATG	GCA	537
Phe	Met	Gln	Arg	Met	Ser	Gly	Ile	Ala	Thr	Leu	Thr	Lys	Glu	Met	Ala	
			150				155						160			
GAT	GCT	GCA	CAC	CCT	GCT	TAC	ATC	TTG	GAG	ACT	AGG	AAA	ACT	GCT	CCT	585
Asp	Ala	Ala	His	Pro	Ala	Tyr	Ile	Leu	Glu	Thr	Arg	Lys	Thr	Ala	Pro	
		165					170					175				

TopRef: 01000000

GGA TTA CGT TTG GTG GAT AAA TGG GCG GTA TTG ATC GGT GGG GGG AAG Gly Leu Arg Leu Val Asp Lys Trp Ala Val Leu Ile Gly Gly Gly Lys 180 185 190	633
AAT CAC AGA ATG GGC TTA TTT GAT ATG GTA ATG ATA AAA GAC AAT CAC Asn His Arg Met Gly Leu Phe Asp Met Val Met Ile Lys Asp Asn His 195 200 205 210	681
ATA TCT GCT GCT GGA GGT GTC GGC AAA GCT CTA AAA TCT GTG GAT CAG Ile Ser Ala Ala Gly Gly Val Gly Lys Ala Leu Lys Ser Val Asp Gln 215 220 225	729
TAT TTG GAG CAA AAT AAA CTT CAA ATA GGG GTT GAG GTT GAA ACC AGG Tyr Leu Glu Gln Asn Lys Leu Gln Ile Gly Val Glu Val Glu Thr Arg 230 235 240	777
ACA ATT GAA GAA GTA CGT GAG GTT CTA GAC TAT GCA TCT CAA ACA AAG Thr Ile Glu Glu Val Arg Glu Val Leu Asp Tyr Ala Ser Gln Thr Lys 245 250 255	825
ACT TCG TTG ACT AGG ATA ATG CTG GAC AAT ATG GTT GTT CCA TTA TCT Thr Ser Leu Thr Arg Ile Met Leu Asp Asn Met Val Val Pro Leu Ser 260 265 270	873
AAC GGA GAT ATT GAT GTA TCC ATG CTT AAG GAG GCT GTA GAA TTG ATC Asn Gly Asp Ile Asp Val Ser Met Leu Lys Glu Ala Val Glu Leu Ile 275 280 285 290	921
AAT GGG AGG TTT GAT ACG GAG GCT TCA GGA AAT GTT ACC CTT GAA ACA Asn Gly Arg Phe Asp Thr Glu Ala Ser Gly Asn Val Thr Leu Glu Thr 295 300 305	969
GTA CAC AAG ATT GGA CAA ACT GGT GTT ACC TAC ATT TCT AGT GGT GCC Val His Lys Ile Gly Gln Thr Gly Val Thr Tyr Ile Ser Ser Gly Ala 310 315 320	1017
CTG ACG CAT TCC GTG AAA GCA CTT GAC ATT TCC CTG AAG ATC GAT ACA Leu Thr His Ser Val Lys Ala Leu Asp Ile Ser Leu Lys Ile Asp Thr 325 330 335	1065
GAG CTC GCC CTT GAA GTT GGA AGG CGT ACA AAA CGA GCA TGAGCGCCAT Glu Leu Ala Leu Glu Val Gly Arg Arg Thr Lys Arg Ala 340 345 350	1114
TACTTCTGCT ATAGGGTTGG AGTAAAAGCA GCTGAATAGC TGAAAGGTGC AAATAAGAAT	1174
CATTTTACTA GTTGTCAAAC AAAAGATCCT TCACTGTGTA ATCAAACAAA AAGATGTAAA	1234
TTGCTGGAAT ATCTCAGATG GCTCTTTTCC AACCTTATTG CTTGAGTTGG TAATTTTCATT	1294
ATAGCTTTGT TTTTCATGTTT CATGGAATTT GTTACAATGA AAATACTTGA TTTATAAGTT	1354
TGGTGTATGT AAAATTCTGT GTTACTTCAA ATATTTTGAG ATGTT	1399

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Phe Arg Ala Ile Pro Phe Thr Ala Thr Val His Pro Tyr Ala Ile
 1 5 10 15
 Thr Ala Pro Arg Leu Val Val Lys Met Ser Ala Ile Ala Thr Lys Asn
 20 25 30
 Thr Arg Val Glu Ser Leu Glu Val Lys Pro Pro Ala His Pro Thr Tyr
 35 40 45
 Asp Leu Lys Glu Val Met Lys Leu Ala Leu Ser Glu Asp Ala Gly Asn
 50 55 60
 Leu Gly Asp Val Thr Cys Lys Ala Thr Ile Pro Leu Asp Met Glu Ser
 65 70 75 80
 Asp Ala His Phe Leu Ala Lys Glu Asp Gly Ile Ile Ala Gly Ile Ala
 85 90 95
 Leu Ala Glu Met Ile Phe Ala Glu Val Asp Pro Ser Leu Lys Val Glu
 100 105 110
 Trp Tyr Val Asn Asp Gly Asp Lys Val His Lys Gly Leu Lys Phe Gly
 115 120 125
 Lys Val Gln Gly Asn Ala Tyr Asn Ile Val Ile Ala Glu Arg Val Val
 130 135 140
 Leu Asn Phe Met Gln Arg Met Ser Gly Ile Ala Thr Leu Thr Lys Glu
 145 150 155 160
 Met Ala Asp Ala Ala His Pro Ala Tyr Ile Leu Glu Thr Arg Lys Thr
 165 170 175
 Ala Pro Gly Leu Arg Leu Val Asp Lys Trp Ala Val Leu Ile Gly Gly
 180 185 190
 Gly Lys Asn His Arg Met Gly Leu Phe Asp Met Val Met Ile Lys Asp
 195 200 205
 Asn His Ile Ser Ala Ala Gly Gly Val Gly Lys Ala Leu Lys Ser Val
 210 215 220
 Asp Gln Tyr Leu Glu Gln Asn Lys Leu Gln Ile Gly Val Glu Val Glu
 225 230 235 240

"000000" 000000

Thr Arg Thr Ile Glu Glu Val Arg Glu Val Leu Asp Tyr Ala Ser Gln
 245 250 255
 Thr Lys Thr Ser Leu Thr Arg Ile Met Leu Asp Asn Met Val Val Pro
 260 265 270
 Leu Ser Asn Gly Asp Ile Asp Val Ser Met Leu Lys Glu Ala Val Glu
 275 280 285
 Leu Ile Asn Gly Arg Phe Asp Thr Glu Ala Ser Gly Asn Val Thr Leu
 290 295 300
 Glu Thr Val His Lys Ile Gly Gln Thr Gly Val Thr Tyr Ile Ser Ser
 305 310 315 320
 Gly Ala Leu Thr His Ser Val Lys Ala Leu Asp Ile Ser Leu Lys Ile
 325 330 335
 Asp Thr Glu Leu Ala Leu Glu Val Gly Arg Arg Thr Lys Arg Ala
 340 345 350

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1053 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ATGTTTAGAG CTATTCCTTT CACTGCTACA GTGCATCCTT ATGCAATTAC AGCTCCAAGG	60
TTGGTGGTGA AAATGTCAGC AATAGCCACC AAGAATACAA GAGTGGAGTC ATTAGAGGTG	120
AAACCACCAG CACACCCAAC TTATGATTTA AAGGAAGTTA TGAAACTTGC ACTCTCTGAA	180
GATGCTGGGA ATTTAGGAGA TGTGACTTGT AAGGCGACAA TTCCTCTTGA TATGGAATCC	240
GATGCTCATT TTCTAGCAAA GGAAGACGGG ATCATAGCAG GAATTGCACT TGCTGAGATG	300
ATATTCGCGG AAGTTGATCC TTCATTAAAG GTGGAGTGGT ATGTAAATGA TGGCGATAAA	360
GTTCATAAAG GCTTGAAATT TGGCAAAGTA CAAGGAAACG CTTACAACAT TGTTATAGCT	420
GAGAGGGTTG TTCTCAATTT TATGCAAAGA ATGAGTGGAA TAGCTACACT AACTAAGGAA	480
ATGGCAGATG CTGCACACCC TGCTTACATC TTGGAGACTA GGAAACTGC TCCTGGATTA	540
CGTTTGGTGG ATAAATGGGC GGTATTGATC GGTGGGGGGA AGAATCACAG AATGGGCTTA	600